



PHILIPS SERVICE

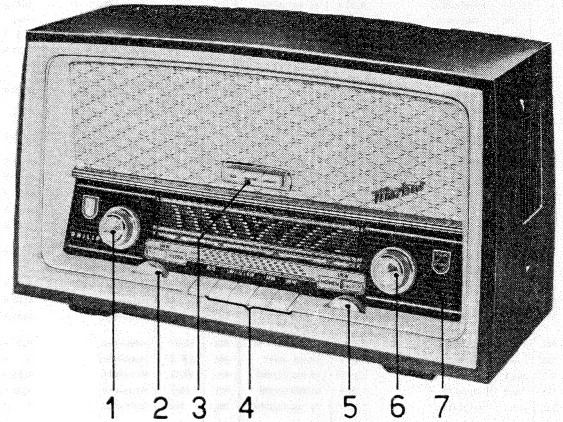
Wechselstrom-Super für AM und FM

BD 473A

„Merkur 473“

Technische Daten

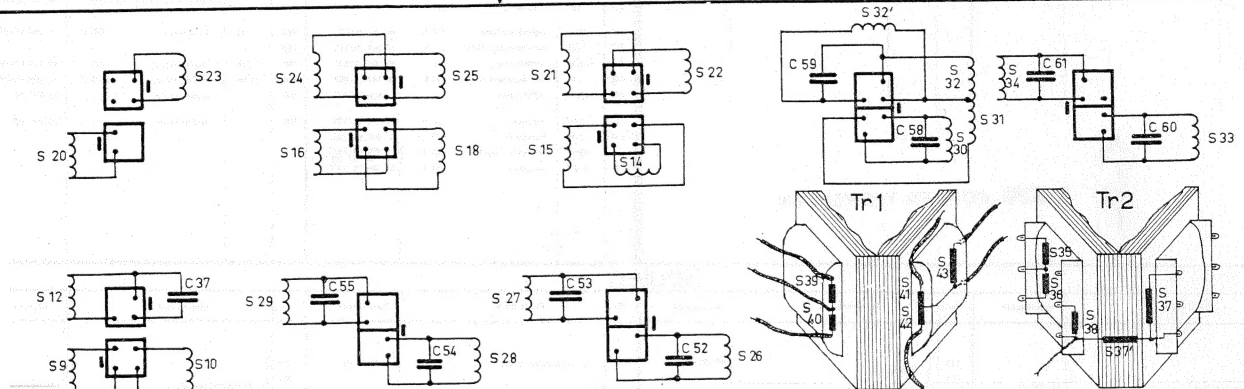
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|--------------------|--------|------------------|-------------------------|
| Wellenbereiche: | FM: | UKW | 87,5 — 100 MHz |
| | AM: | KW | 6,0 — 12 MHz |
| | | MW | 518 — 1622 kHz |
| | | LW | 148 — 345 kHz |
| Schaltung: | FM: | 10 Kreise | |
| | AM: | 6 Kreise | |
| Tondemodulation: | FM: | Rotiodetektor | |
| | AM: | Diode | |
| Zwischenfrequenz: | FM: | 10,7 MHz | |
| | AM: | 460 kHz | |
| Netzspannung: | | 110, 220 Volt | 50 Hz ~ |
| Sicherung: | | bei 220 Volt | 0,4 Amp mittelträge |
| | | bei 110 Volt | 0,8 Amp mittelträge |
| Skalenlampe: | | 7 Volt, 0,3 Amp. | |
| Leistungsaufnahme: | | ca. 50 Watt | |
| Lautsprecher: | | Z = 5 Ohm | |
| | | (1x WE 670 52) | (2x WE 670 67 statisch) |
| Abmessungen: | Breite | 520 mm | |
| | Höhe | 305 mm | |
| | Tiefe | 220 mm | |
| Gewicht: | | ca. 6,5 kg | |
| Fertigungsjahr: | | 1957/58 | |



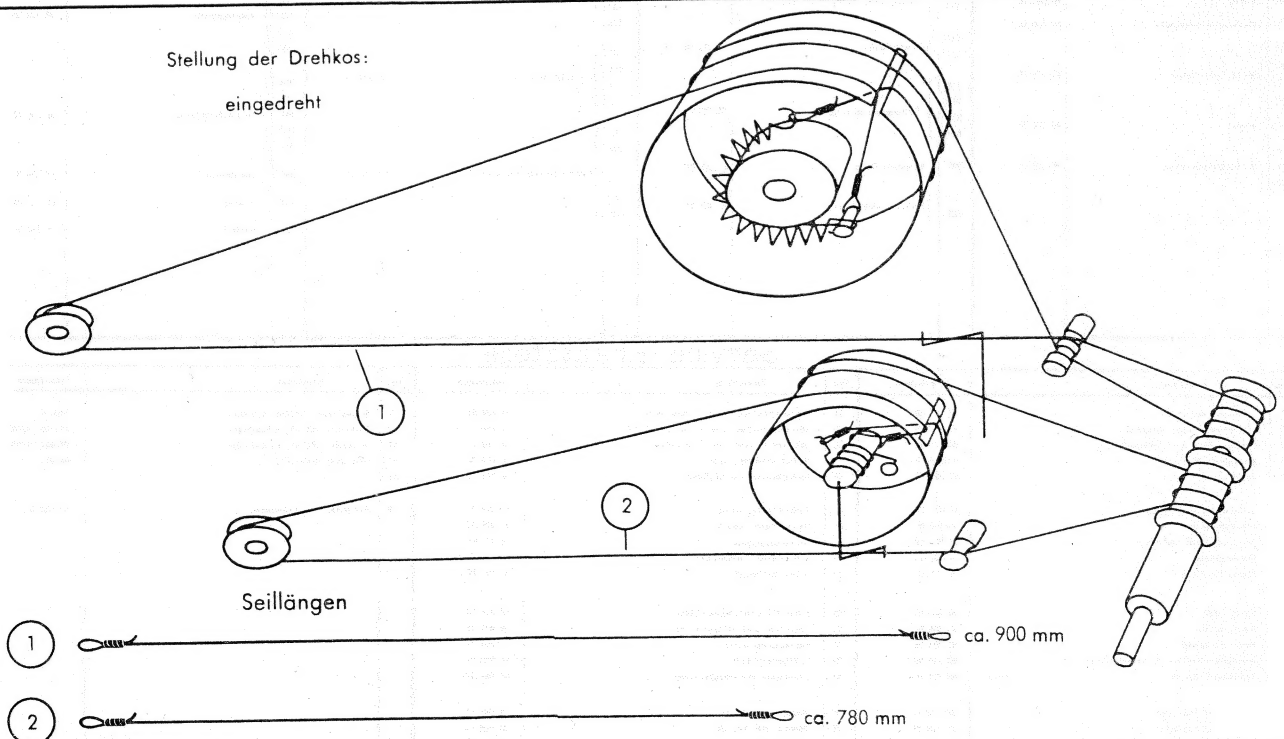
Bedienungsknöpfe

- | | |
|------------------------|-----------------|
| 1 Lautstärkeregl. | 5 Höhenregler |
| 2 Bassregler | 6 FM-Abstimmung |
| 3 Klangselektor | 7 AM-Abstimmung |
| 4 Wellenbereich-Tasten | |


Spulenanschlussplan



Seilführungsplan



| Widerstände | | | | | | | | Kondensatoren | | | | | | | | | | | | |
|-------------|-------|-----------------------------|-------------|----------------|------|-----------------------------|---------------|---------------|----------------|------------------------|-------------|----------------------|-------|------------------------|-------------|--------|---------------------|------------------|------------------|---|
| Pos. | Wert | Art u. Mindestbelastbarkeit | Code-Nummer | Pos. | Wert | Art u. Mindestbelastbarkeit | Code-Nummer | Pos. | Wert | Art u. Mindestspannung | Code-Nummer | Pos. | Wert | Art u. Mindestspannung | Code-Nummer | | | | | |
| R1 | 180 Ω | Kohle-Wid. | 0,1 W | A9 999 01/180E | R29 | 470kΩ | Kohle-Wid. | 0,25 W | A9 999 02/470K | C1 | 20pF | Ker.-Kond. | 500 V | A9 999 04/20E | C51 | 12pF | Ker.-Kond. | - | AC 2002/12 | |
| R2 | 5,3kΩ | Kohle-Wid. | 0,5 W | A9 999 02/393 | R30 | 33kΩ | Kohle-Wid. | 0,1 W | A9 999 01/33K | C2 | 1,5pF | Durchf.-Kond. | 500 V | - | - | C52 | 10pF | in Spule S26,S27 | - | - |
| R3 | 1MΩ | Kohle-Wid. | 0,25 W | A9 999 02/1M | R31 | 2MΩ | Potentiometer | 11kΩ | WE 345 16 | C3 | 11pF | Ker.-Schleiben Kond. | 500 V | A9 999 04/11E | C53 | 15pF | in Spule S26,S27 | - | - | |
| R4 | 150 Ω | Vitreum-Wid. | 0,5 W | A9 999 02/150E | R32 | 47 Ω | Vitreum-Wid. | 0,5 W | A9 999 02/47E | C4 | 20pF | Ker.-Schleiben Kond. | 500 V | A9 999 04/20E | C54 | 15pF | in Spule S26,S29 | - | - | |
| R5 | 15kΩ | Vitreum-Wid. | 0,5 W | A9 999 02/15K | R33 | 1MΩ | Kohle-Wid. | 0,25 W | A9 999 02/1M | C5 | 1,5pF | Perl.-Kond. | 125 V | WE 401 47 | C55 | 15pF | in Spule S26,S29 | - | - | |
| R6 | - | - | - | - | R34 | - | - | - | - | C6 | 4pF | Ker.-Schleiben Kond. | 500 V | A9 999 04/36E | C56 | 1,5pF | Ker.-Kond. | 300 V | A9 999 04/1K5 | |
| R7 | - | - | - | - | R35 | 220kΩ | Kohle-Wid. | 0,25 W | A9 999 02/220K | C7 | 7pF | Ker.-Kond. | 500 V | A9 999 04/62B | C57 | 0,5pF | Miniat.-Elko, Isol. | 70/80 V | A9 999 06/0,5 | |
| R8 | 330kΩ | Kohle-Wid. | 0,1 W | A9 999 01/330K | R36 | 0,5MΩ | Potentiometer | - | WE 344 91 | C8 | - | UW-Drehko | - | WE 344 47 | C58 | 10pF | in Spule S30-S32 | - | - | |
| R9 | 33kΩ | Kohle-Wid. | 1 W | A9 999 02/33K | R37 | 1,5MΩ | - | - | - | C9 | - | - | - | - | C59 | 47pF | in Spule S30-S32 | - | - | |
| R10 | 1MΩ | Kohle-Wid. | 0,25 W | A9 999 02/1M | R38 | 47kΩ | Kohle-Wid. | 0,25 W | A9 999 02/47K | C10 | 1,5pF | Durchf.-Kond. | 500 V | - | C60 | 150pF | in Spule S33,S34 | - | - | |
| R11 | 150 Ω | Kohle-Wid. | 0,25 W | A9 999 02/150E | R39 | 22kΩ | Kohle-Wid. | 0,25 W | A9 999 02/22K | C11 | 8pF | Ker.-Kond. | 500 V | A9 999 04/8E2 | C61 | 15pF | in Spule S33,S34 | - | - | |
| R12 | 33kΩ | Kohle-Wid. | 0,1 W | A9 999 01/33K | R40 | 150 Ω | Kohle-Wid. | 0,1 W | A9 999 01/150E | C12 | 8pF | Ker.-Schleiben Kond. | 500 V | A9 999 04/8E2 | C62 | 10pF | Ker.-Kond. | 300 V | A9 999 04/10K | |
| R13 | 33kΩ | Kohle-Wid. | 1 W | A9 999 02/33K | R41 | 100 Ω | Kohle-Wid. | 0,25 W | A9 999 02/100E | C13 | 5pF | Ker.-Schleiben Kond. | 500 V | A9 999 04/4E7 | C63 | 88pF | Ker.-Kond. | 300 V | A9 999 04/88E | |
| R14 | 33kΩ | Kohle-Wid. | 0,1 W | A9 999 01/33K | R42 | 15kΩ | Kohle-Wid. | 0,25 W | A9 999 02/15K | C14 | 8pF | Ker.-Trimmer | - | AC 2003/5 | C64 | 10pF | Ker.-Kond. | 300 V | A9 999 04/10K | |
| R15 | 150 Ω | Kohle-Wid. | 0,1 W | A9 999 01/150E | R43 | 8,2kΩ | Kohle-Wid. | 0,25 W | A9 999 02/82E | C15 | 12pF | Ker.-Kond. | 500 V | A9 999 04/12E | C65 | 47pF | Miniat.-Kond. | 125 V | A9 999 06/47K | |
| R16 | 330 Ω | Kohle-Wid. | 0,1 W | A9 999 01/330E | R44 | 4,7MΩ | Kohle-Wid. | 0,25 W | A9 999 02/47K | C16 | 8pF | Ker.-Schleiben Kond. | 500 V | A9 999 04/8E2 | C66 | 2,7pF | Miniat.-Kond. | 300 V | A9 999 06/27K | |
| R17 | 1kΩ | Kohle-Wid. | 0,35 W | A9 999 02/1K | R45 | 0,2MΩ | Potentiometer | + log. | WE 345 22 | C17 | 15pF | Ker.-Kond. | 500 V | A9 999 04/15E | C67 | 33pF | Ker.-Kond. | 300 V | A9 999 04/330E | |
| R18 | 1MΩ | Kohle-Wid. | 0,5 W | A9 999 02/1M | R46 | 220kΩ | Kohle-Wid. | 0,5 W | A9 999 02/220K | C18 | 39pF | Ker.-Kond. | 500 V | A9 999 04/39E | C68 | 330pF | Ker.-Kond. | 300 V | A9 999 04/330E | |
| R19 | 68kΩ | Kohle-Wid. | 0,5 W | A9 999 02/68K | R47 | 100kΩ | Kohle-Wid. | 0,25 W | A9 999 02/100K | C19 | 4,7pF | Ker.-Kond. | 500 V | A9 999 04/47E | C69 | 5pF | Miniat.-Elko | 70/80 V | A9 999 06/5 | |
| R20 | 2,7MΩ | Vitreum-Wid. | 0,5 W | A9 999 02/27M | R48 | 360kΩ | Kohle-Wid. | 0,35 W | A9 999 02/360K | C20 | 1pF | Styrolflex Kond. | 250 V | A9 999 05/1K | C70 | 10pF | Ker.-Kond. | 300 V | A9 999 04/10K | |
| R21 | 470kΩ | Kohle-Wid. | 0,1 W | A9 999 01/470K | R49 | 330kΩ | Kohle-Wid. | 0,1 W | A9 999 01/330K | C21 | 33pF | Ker.-Kond. | 500 V | A9 999 04/33E | C71 | 10pF | Ker.-Kond. | 300 V | A9 999 04/10K | |
| R22 | 1kΩ | Kohle-Wid. | 0,5 W | A9 999 02/1K | R50 | 150 Ω | Draht-Wid. | 1 W | A9 999 02/150E | C22 | 33pF | in Spule S9,S10 | - | - | C72 | 470pF | Ker.-Kond. | 300 V | A9 999 04/470E | |
| R23 | 990 Ω | Kohle-Wid. | 0,1 W | A9 999 01/990E | R51 | 100kΩ | Kohle-Wid. | 0,25 W | A9 999 02/100K | C23 | 4pF | Ker.-Schleiben Kond. | 500 V | A9 999 04/5E8 | C73 | 220pF | Ker.-Kond. | 300 V | A9 999 04/220E | |
| R24 | 15kΩ | Kohle-Wid. | 0,25 W | A9 999 02/15K | R52 | 10kΩ | Kohle-Wid. | 0,25 W | A9 999 02/10K | C24 | 4pF | Ker.-Schleiben Kond. | 500 V | A9 999 04/5E8 | C74 | 33pF | Miniat.-Kond. | 125 V | A9 999 06/33K | |
| R25 | 100kΩ | Kohle-Wid. | 0,25 W | A9 999 02/100K | R53 | 1kΩ | Draht-Wid. | 3 W | WE 300 60 | C25 | 470pF | Miniat.-Kond. | 500 V | A9 999 06/470E | C75 | 10pF | Miniat.-Kond. | 125 V | A9 999 06/10K | |
| R26 | 330kΩ | Kohle-Wid. | 0,1 W | A9 999 01/330K | R54 | 4,7MΩ | Kohle-Wid. | 0,25 W | A9 999 02/47K | C26 | 1pF | Styrolflex Kond. | 125 V | A9 999 05/1K | C76 | 5,6pF | Miniat.-Kond. | 250 V | A9 999 06/56E | |
| R27 | 1,5MΩ | Kohle-Wid. | 0,1 W | A9 999 01/15M | R55 | 1kΩ | Draht-Wid. | 3 W | WE 300 60 | C27 | 3pF | Styrolflex Kond. | 125 V | A9 999 05/3K | C77 | - | - | - | - | |
| R28 | 1MΩ | Kohle-Wid. | 0,1 W | A9 999 01/1M | R56 | 1kΩ | Draht-Wid. | 3 W | WE 300 60 | C28 | 18pF | Ker.-Kond. | 500 V | A9 999 04/18E | C78 | 0,22pF | Miniat.-Kond. | 125 V | A9 999 06/220K | |
| | | | | | R57 | 1kΩ | Draht-Wid. | 3 W | WE 300 60 | C29 | 430pF | Styrolflex Kond. | 125 V | A9 999 05/430E | C79 | 2,2pF | Tauche-Kond. | 300 V | A9 999 06/22E | |
| | | | | | R58 | 1kΩ | Draht-Wid. | 3 W | WE 300 60 | C30 | 3-30pF | Lufttrimmer | - | A9 999 05/20E | C80 | 0,1pF | Tauche-Kond. | 125 V | A9 999 06/100K | |
| | | | | | R59 | 1kΩ | Draht-Wid. | 3 W | WE 300 60 | C31 | 22pF | Ker.-Kond. | 500 V | A9 999 04/22E | C81 | 10pF | Miniat.-Kond. | 125 V | A9 999 06/10K | |
| | | | | | R60 | 1kΩ | Draht-Wid. | 3 W | WE 300 60 | C32 | 3-30pF | Lufttrimmer | - | A9 999 06/30E | C82 | 10pF | Tauche-Kond. | 300 V | A9 999 06/10K | |
| | | | | | R61 | 1kΩ | Draht-Wid. | 3 W | WE 300 60 | C33 | - | AK-Drehko | - | WE 345 48 | C83 | 0,22pF | Miniat.-Kond. | 250 V | A9 999 06/220K | |
| | | | | | R62 | 1kΩ | Draht-Wid. | 3 W | WE 300 60 | C34 | - | AK-Drehko | - | WE 345 48 | C84 | 10pF | Tauche-Kond. | 300 V | A9 999 06/10K | |
| | | | | | R63 | 1kΩ | Draht-Wid. | 3 W | WE 300 60 | C35 | 220pF | Ker.-Kond. | 500 V | A9 999 04/220E | C85 | 100pF | Miniat.-Elko, Isol. | 12/15 V | A9 999 06/100K | |
| | | | | | R64 | 1kΩ | Draht-Wid. | 3 W | WE 300 60 | C36 | 10pF | in Spule S12 | - | - | C86 | 15pF | Miniat.-Kond. | 300 V | A9 999 06/15K | |
| | | | | | R65 | 1kΩ | Draht-Wid. | 3 W | WE 300 60 | C37 | 10pF | Ker.-Kond. | 500 V | A9 999 04/10K | C87 | 3pF | Tauche-Kond. | 300 V | A9 999 06/47E | |
| | | | | | R66 | 1kΩ | Draht-Wid. | 3 W | WE 300 60 | C38 | 5pF | Ker.-Schleiben Kond. | 500 V | A9 999 04/4E7 | C88 | 2,2pF | Tauche-Kond. | 300 V | A9 999 06/22E | |
| | | | | | R67 | 1kΩ | Draht-Wid. | 3 W | WE 300 60 | C39 | 10pF | Ker.-Kond. | 500 V | A9 999 04/10K | C89 | 30pF | Elektrolyt Kond. | 250/280 V | A9 999 12/500-50 | |
| | | | | | R68 | 1kΩ | Draht-Wid. | 3 W | WE 300 60 | C40 | 56pF | Ker.-Kond. | 500 V | A9 999 04/56E | C90 | 30pF | - | - | - | |
| | | | | | R69 | 1kΩ | Draht-Wid. | 3 W | WE 300 60 | C41 | 470pF | Styrolflex Kond. | 250 V | A9 999 05/470E | C91 | 10pF | Ker.-Kond. | 500 V | A9 999 04/10K | |
| | | | | | R70 | 1kΩ | Draht-Wid. | 3 W | WE 300 60 | C42 | 18pF | Ker.-Schleiben Kond. | 500 V | A9 999 04/18E | C92 | - | - | - | - | |
| | | | | | R71 | 1kΩ | Draht-Wid. | 3 W | WE 300 60 | C43 | 3-30pF | Lufttrimmer | - | A9 999 06/30E | C93 | 6,8pF | Tauche-Kond. | 1000 V | A9 999 06/68E | |
| | | | | | R72 | 1kΩ | Draht-Wid. | 3 W | WE 300 60 | C44 | 5pF | Ker.-Schleiben Kond. | 500 V | A9 999 04/4E7 | C94 | 6,8pF | Tauche-Kond. | 1000 V | A9 999 06/68E | |
| | | | | | R73 | 1kΩ | Draht-Wid. | 3 W | WE 300 60 | C45 | 3-30pF | Lufttrimmer | - | A9 999 06/30E | C95 | - | Leistungsdioden | - | WE 670 67 | |
| | | | | | R74 | 1kΩ | Draht-Wid. | 3 W | WE 300 60 | C46 | 39pF | Ker.-Kond. | 500 V | A9 999 04/39E | C96 | - | Leistungsdioden | - | WE 670 67 | |
| | | | | | R75 | 1kΩ | Draht-Wid. | 3 W | WE 300 60 | C47 | 39pF | Ker.-Kond. | 500 V | A9 999 04/39E | C97 | - | Leistungsdioden | - | WE 670 67 | |
| | | | | | R76 | 1kΩ | Draht-Wid. | 3 W | WE 300 60 | C48 | 255pF | Styrolflex Kond. | 125 V | A9 999 05/255E | C98 | - | Leistungsdioden | - | WE 670 67 | |
| | | | | | R77 | 1kΩ | Draht-Wid. | 3 W | WE 300 60 | C49 | 33pF | Ker.-Kond. | 500 V | A9 999 04/33E | C99 | - | Leistungsdioden | - | WE 670 67 | |
| | | | | | R78 | 1kΩ | Draht-Wid. | 3 W | WE 300 60 | C50 | 33pF | Ker.-Kond. | 500 V | A9 999 04/33E | C100 | - | Leistungsdioden | - | WE 670 67 | |



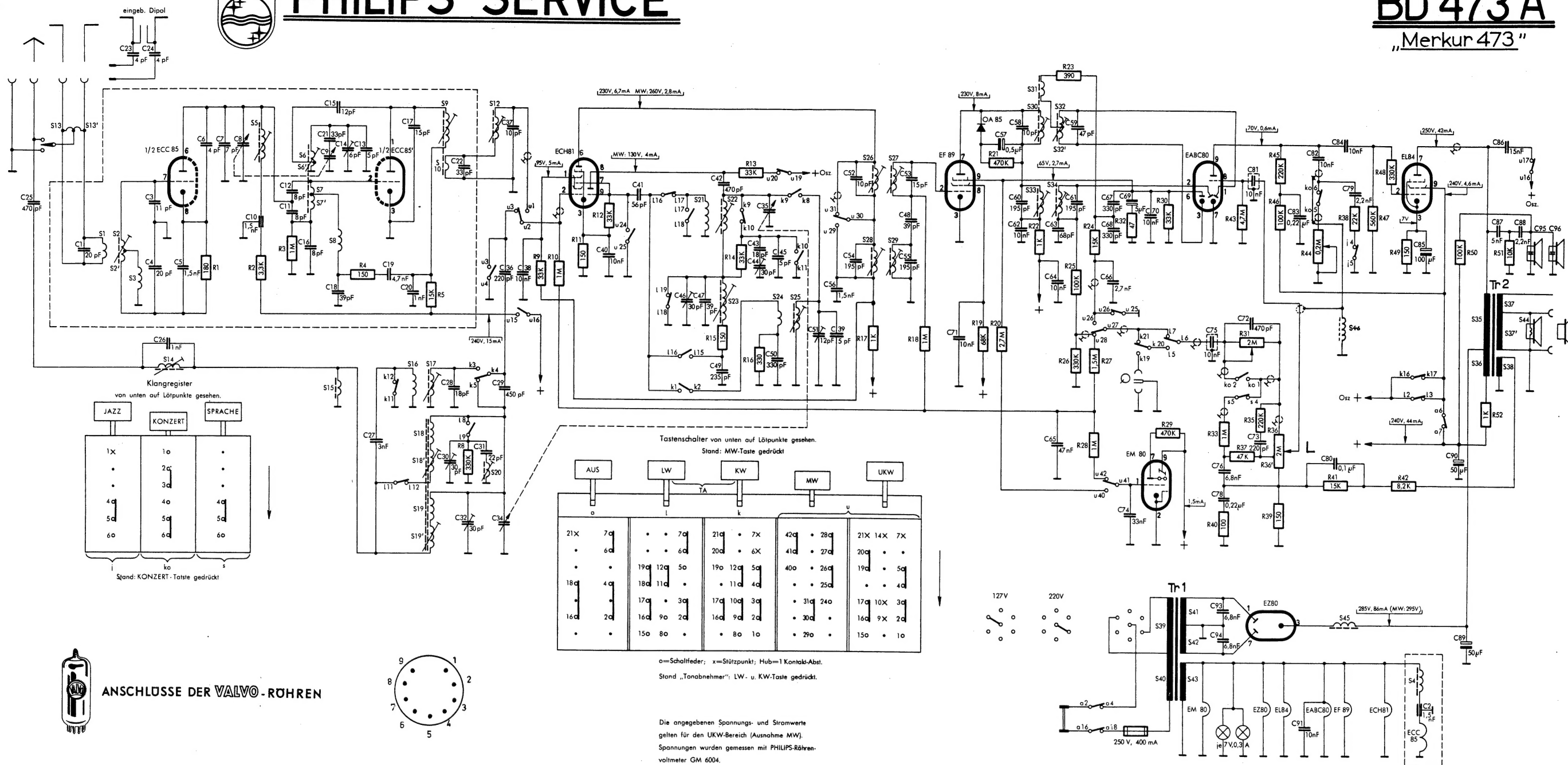
VALVO - RÖHREN VERWENDEN



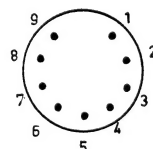
VALVO-ROHREN VERWENDEN

Spulen

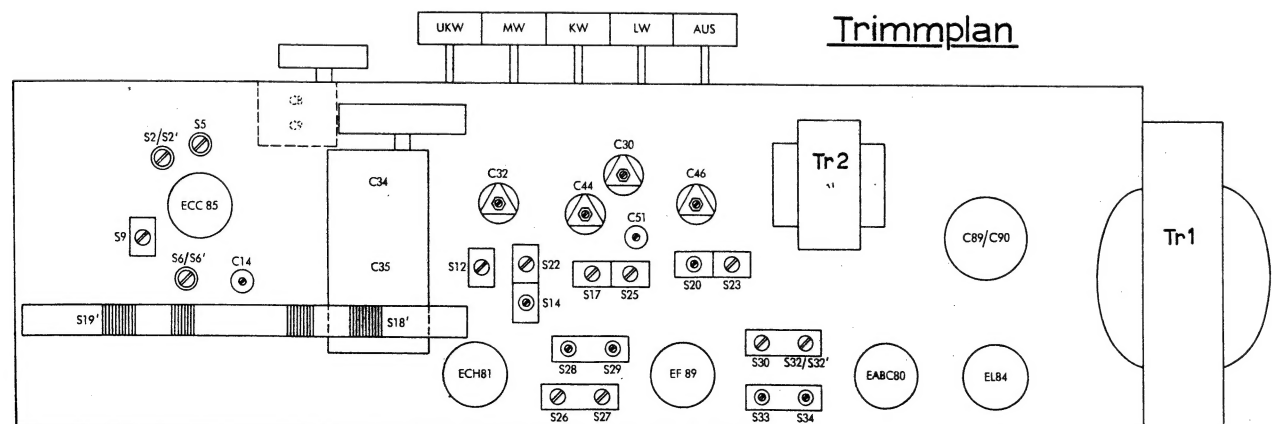
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|------|-------------------------|---------------|------|--------------------------------|---------------------|-----------|---------------------|---------------------|-------------------------|-------------------|-------------|-----------|-----------|--------------|
| S1 | Eingangsfilter | WE 350 42 | S12 | ZF-Spule FM | WE 120 87 | S25 | LM-Oszillator Spule | WE 121 08 | S33 | ZF-Bandfilter AM | WE 121 16 | | | |
| S2 | | | C37 | | | | S24 | MW-Oszillator Spule | WE 121 14 | | | C60 | | |
| S21 | | | | | | S13 | | | | | | S34 | | |
| C1 | | | S13+ | | | WE 110 61 | C61 | | | | | | | |
| S3 | Drossel | VK 200 01/IVB | S14 | ZF-Sperrkreis Spule AM/Drossel | WE 121 36 | S26 | ZF-Bandfilter FM | WE 121 21 | S35 | Ausgangstrafe | WE 151 51 | | | |
| S4 | Drossel | WE 111 96 | S15 | | | | | | C52 | | | S36 | | |
| S5 | UW-Zwischenkreisantenne | WE 112 24 | S16 | MW-Ant.Spule | WE 121 06 | S27 | | | | | | S37 | | |
| S6 | | | S17 | | | | C53 | S38 | | | | | | |
| S61 | MW-Oszillatorspule | WE 112 25 | S18 | Ferroreceptor MW + LW | WE 350 39 | S28 | ZF-Bandfilter AM | WE 121 16 | S39 | Netztransformator | WE 141 33 | | | |
| S7 | | | | | | S18+ | | | | | | C54 | S40 | |
| S71 | | | | | | S19 | | | | | | C55 | S41 | |
| S8 | Drossel | WE 112 22 | S19+ | | | | | S30 | Radio-Detektor Spule FM | | | WE 121 19 | S42 | Lautsprecher |
| S9 | ZF-Primärkreis-Spule | WE 121 32 | S20 | Saughkreis Spule | WE 121 07 | C56 | S31 | S43 | | Drossel | WE 111 96 | | | |
| S10 | | | | S21 | MW-Oszillator Spule | WE 121 35 | S32 | | | | | | S44 | |
| C22 | | | | S22 | | | | S32+ | | | | S45 | | |
| | | | | | | C59 | | | S46 | | | Drossel | WE 111 96 | |



ANSCHLÜSSE DER VALVO®-RÖHREN



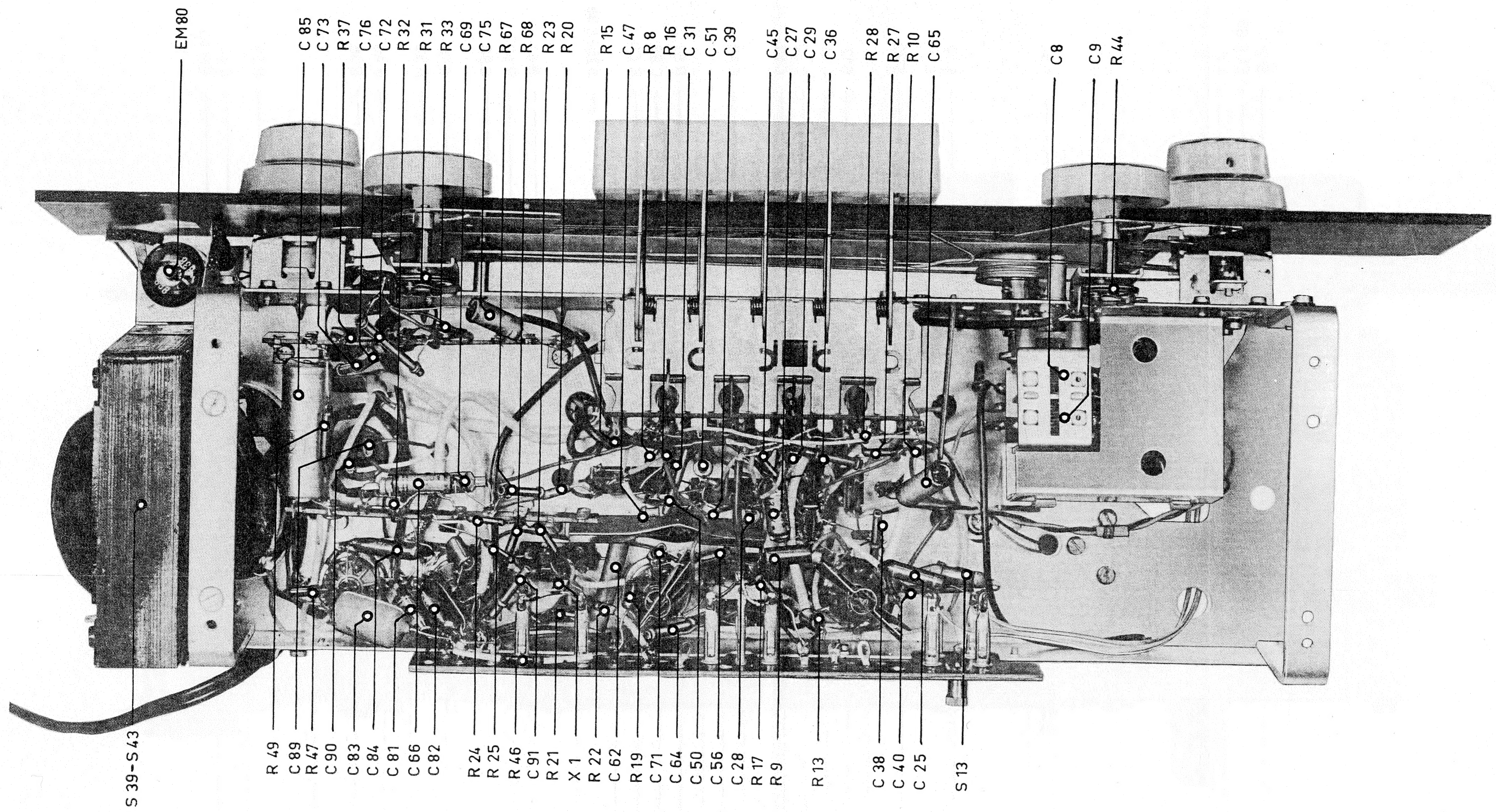
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| S | 13, 13', | 1, 2, 2', | 3, | 14, | 5, | 6, 6', 7, 7', | 8, 15, | 16, 17, 18, 18', 19, 19', | 9, 10, | 20, 12, | 21, 22, 23, | 24, 25, | 26, 28, 27, 29, | 31, 30, 33, 32, 32', 34, | 39, 40, 41, 42, 43, | 44, 45, | 4, | 35, 36, 37, 37', 38, | 44, | S | | | | | | | | | | | | | | | | | | |
| R | | | | | 1, | 2, | 3, | 4, | 5, | 8, | 9, 10, 11, 12, | 15, 14, 13, 16, | 17, | 18, | 19, 21, 20, | 22, 23, 25, 26, 24, 27, 28, | 32, | 30, 29, | 35, 33, 40, 43, 31, 37, 45, 46, 36, 36', 39, | 44, | 41, 38, | 47, 48, 49, 42, | 50, | 52, | 51, | R | | | | | | | | | | | | |
| C | 25, | 1, | 23, 24, 3, 4, 26, | 5, | 6, | 7, | 8, | 10, | 12, 11, | 16, 21, 9, 15, 18, 14, | 13, 27, 19, | 17, 20, | 28, 30, 22, 32, | 31, 36, 29, 34, 37, 38, | 40, | 41, | 46, | 47, 42, 49, | 43, 44, 35, 45, 50, | 51, 39, 56, | 52, 54, | 53, 48, 55, | 71, | 57, 58, 60, 62, | 63, 64, 65, 59, 61, | 67, 68, 66, 69, 74, | 70, | 75, 76, 78, 93, 94, 81, 72, 73, | 83, 91, 82, | 80, 84, 79, | 85, 2, | 90, | 89, | 87, | 86, | 88, | 95, | 96, |



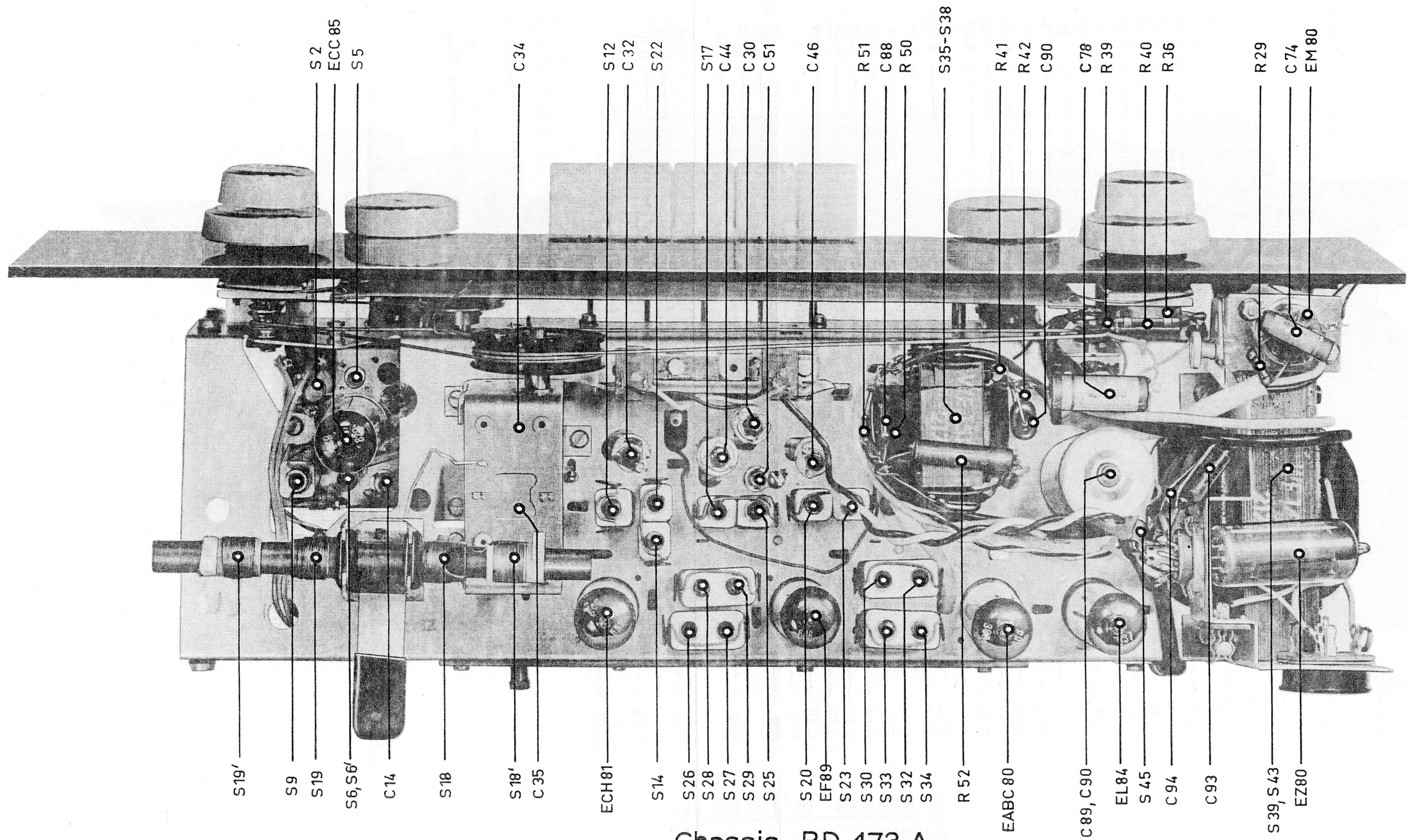
Trimmplan

Abgleichsanweisung

| Abgleich-Reihenfolge | Taste | Zeiger auf | Meßsender-Frequenz | Antkopplung des Meßsenders über | Verstärken | Abgleichen | Anzeige | Hinweis |
|----------------------|-------|------------|-------------------------------|--|------------|--------------------------|------------------------|--|
| ZF-Kreise | AM | 1550 kHz | 460 kHz | 33 nF an g 1 EF 89 | S 33 | S 34, S 33 | max. Output | Für alle Abgleicharbeiten Lautstärke regeln! Bei- und Hörsenager auf Maximum. Outputmeter (S 0hm) an Lautsprecherbuchse. |
| ZF-Sperrkreis | AM | 550 kHz | | 33 nF an g 1 ECH 81 | S 29 | S 28, S 29 | min. Output | |
| Abstimmkreise | MW | 1550 kHz | 1550 kHz | künstliche Antenne | | S 14 | | |
| Abstimmkreise | MW | 1550 kHz | 1550 kHz | an | | S 22, S 19 S 44, S 32 | | |
| Abstimmkreise | LW | 151 kHz | 151 kHz | AM-Antennenbuchse | | S 23, S 19 S 46, S 30 | max. Output | Die Zeiger sollen in den Anschlängen hinter den Markern am Skalenende stehen. |
| Abstimmkreise | KW | 5,85 MHz | 5,85 MHz | | | S 25, S 17 S 51 | | Beim Abgleichen der FM-ZF-Kreise ist, außerdem das Outputmeter, über 100 kΩ ein höheres Voltmeter, z. B. PHILIPS GM 7635 oder GM 6004, parallel zu C 70 anzuschließen. Bei ungängiger Anpassung des Meßsenders ist so zu regeln, daß beim Abgleichen ca. -2V vom RV angezeigt werden. Der Massenschluß der Signale ist an Punkt 10 der zugehörigen Kähne zu legen. |
| Abstimmkreise | KW | 12,4 MHz | 12,4 MHz | | | | | |
| Spiegelsender | LW | 190 kHz | 1110 kHz | Peilrahmen auf Ferroceptor | S 20 | min. Output | | |
| ZF-Kreise | FM | 101 MHz | 10,7 MHz FM ca. 15 kHz Hub | 10 nF an g 1 EF 89 | S 32 | S 30 S 32 | max. RV max. Output | |
| | | | | 10 nF an g 1 ECH 81 | S 27 | S 26, 27 | | |
| | UKW | | | Metallklammer auf Glasblenden der ECC 85 | S 12 | S 9, 12 | max. RV | |
| Abstimmkreise | FM | 88 MHz | 88 MHz | Symmetrie-Glied an Dipolbuchsen | | S 6, S 5 S 14 | max. Output | |
| | | 98 MHz | 98 MHz | | | | | |



Chassis BD 473 A
Ansicht von unten



Chassis BD 473 A
Ansicht von oben